

MGTQVSQATSQPINFQVQKDGSSEKSHMDDYMQHPGKVIKQNNKYYFQTVLNNASFWKEYKFYNANNQELATTVV
NDNKKADTRTINVAVEPGYKSLTTKVHIVVPQINYNHRYTTHLEFEKAIPTLADAACKPNNVKPVQPKPAQPKPTPT
EQTKPVQPKVEKVKPTVTTSKVEDNHSTKVVSTDTTKDQTKTQTAHTVKTAQTAQEQNKVQTPVKDVATAKSES
NNQAVSDNKSQQTNKVTKHNETPKQASKAKELPKT

FIG. 1

MGTQVSQATSQPINFQVQKDGSSEKSHMDDYMQHPGKVIKQNNKYYFQAVLNNASFWKEYKFYNANNQELATTVV
NDDKKADTRTINVAVEPGYKSLTTKVHIVVPQINYNHRYTTHLEFEKAIPTLADAACKPNNVKPVQPKPAQPKPTPT
EQTKPVQPKVEKVKPAVTAPSKNENRQTTKVSSEATKDQSQTQSARTVKTQTAQDQNKVQTPVKDVATAKSES
NNQAVSDNKSQQTNKVTQNEVHKQGPSKDSKAKELPKT

FIG. 2

SEQ 3 : -----
 SEQ 4 : -----
 SEQ 5 : -----
 SEQ 6 : MHHHHHHSSGLVPRGSGMKGAAKFERQHMDSPDLGTDDDKAMGKHYLNSKYQSEQR
 SEQ 7 : ----- MTKHYLNSKYQSEQR
 SEQ 8 : ----- MTKHYLNSKYQSEQR
 SEQ 9 : ----- MTKHYLNSKYQSEQR

SEQ 3 : ----- MGSSHHHHHSSGLVPRGSHMGTQVSQATSQPINFQVQK
 SEQ 4 : ----- MGSSHHHHHSSGLVPRGSHMGTQVSQATSQPINFQVQK
 SEQ 5 : ----- MGTQVSQATSQPINFQVQK
 SEQ 6 : SSAMKKITMGTASIILGSLVYIGADSSQQVNAATEATNATNNQSTQVSQATSQPINFQVQK
 SEQ 7 : SSAMKKITMGTASIILGSLVYIGADSSQQVNAATEATNATNNQSTQVSQATSQPINFQVQK
 SEQ 8 : SSAMKKITMGTASIILGSLVYIGADSSQQVNAATEATNATNNQSTQVSQATSQPINFQVQK
 SEQ 9 : SSAMKKITMGTASIILGSLVYIGADSSQQVNAATEATNATNNQSTQVSQATSQPINFQVQK

SEQ 3 : DGSSEKSHMDDYMQHPGKVIKQNNKYYFQTVLNNASFWSKEYKFYNANNQELATTVVNDNK
 SEQ 4 : DGSSEKSHMDDYMQHPGKVIKQNNKYYFQAVLNNASFWSKEYKFYNANNQELATTVVNDDK
 SEQ 5 : DGSSEKSHMDDYMQHPGKVIKQNNKYYFQTVLNNASFWSKEYKFYNANNQELATTVVNDNK
 SEQ 6 : DGSSEKSHMDDYMQHPGKVIKQNNKYYFQTVLNNASFWSKEYKFYNANNQELATTVVNDNK
 SEQ 7 : DGSSEKSHMDDYMQHPGKVIKQNNKYYFQAVLNNASFWSKEYKFYNANNQELATTVVNDNK
 SEQ 8 : DGSSEKSHMDDYMQHPGKVIKQNNKYYFQAVLNNASFWSKEYKFYNANNQELATTVVNDDK
 SEQ 9 : DGSSEKSHMDDYMQHPGKVIKQNNKYYFQTVLNNASFWSKEYKFYNANNQELATTVVNDNK

SEQ 3 : KADTRTINVAEPGYKSLTTKVHIVVPQINYNHRYTTHLEFEKAIPTLADAAPPNVKPV
 SEQ 4 : KADTRTINVAEPGYKSLTTKVHIVVPQINYNHRYTTHLEFEKAIPTLADAAPPNVKPV
 SEQ 5 : KADTRTINVAEPGYKSLTTKVHIVVPQINYNHRYTTHLEFEKAIPTLADAAPPNVKPV
 SEQ 6 : KADTRTINVAEPGYKSLTTKVHIVVPQINYNHRYTTHLEFEKAIPTLADAAPPNVKPV
 SEQ 7 : KADTRTINVAEPGYKSLTTKVHIVVPQINYNHRYTTHLEFEKAIPTLADAAPPNVKPV
 SEQ 8 : KADTRTINVAEPGYKSLTTKVHIVVPQINYNHRYTTHLEFEKAIPTLADAAPPNVKPV
 SEQ 9 : KADTRTINVAEPGYKSLTTKVHIVVPQINYNHRYTTHLEFEKAIPTLADAAPPNVKPV

SEQ 3 : QPKPAQPKTPTEQTCKPVQPKVEVKPVTTSKVEDNHSTKVVSTDTTKDQTKTQTAHTV
 SEQ 4 : QPKPAQPKTPTEQTCKPVQPKVEVKPAVTAPSKNENRQTTKVVSEATKDQSQTQSARTV
 SEQ 5 : QPKPAQPKTPTEQTCKPVQPKVEVKPVTTSKVEDNHSTKVVSTDTTKDQTKTQTAHTV
 SEQ 6 : QPKPAQPKTPTEQTCKPVQPKVEVKPVTTSKVEDNHSTKVVSTDTTKDQTKTQTAHTV
 SEQ 7 : QPKPAQPKTPTEQTCKPVQPKVEVKPVTTSKVEDNHSTKVVSTDTTKDQTKTQTAHTV
 SEQ 8 : QPKPAQPKTPTEQTCKPVQPKVEVKPAVTAPSKNENRQTTKVVSEATKDQSQTQSARTV
 SEQ 9 : QPKPAQPKTPTEQTCKPVQPKVEVKPVTTSKVEDNHSTKVVSTDTTKDQTKTQTAHTV

SEQ 3 : KTAQTAQEQNKVQTPVKDVATAKSESNNQAVSDNKSQQTNKVTKHNETPKQA---SKAK
 SEQ 4 : KTTQTAQDQNKVQTPVKDVATAKSESNNQAVSDNKSQQTNKVTKQNEVHKQGPSKDSKAK
 SEQ 5 : KTAQTAQEQNKVQTPVKDVATAKSESNNQAVSDNKSQQTNKVTKHNETPKQA---SKAK
 SEQ 6 : KTAQTAQEQNKVQTPVKDVATAKSESNNQAVSDNKSQQTNKVTKHNETPKQA---SKAK
 SEQ 7 : KTAQTAQEQNKVQTPVKDVATAKSESNNQAVSDNKSQQTNKVTKHNETPKQA---SKAK
 SEQ 8 : KTTQTAQDQNKVQTPVKDVATAKSESNNQAVSDNKSQQTNKVTKQNEVHKQGPSKDSKAK
 SEQ 9 : KTAQTAQEQNKVQTPVKDVATAKSESNNQAVSDNKSQQTNKVTKHNETPKQA---SKAK

SEQ 3 : ELPKT-----
 SEQ 4 : ELPKT-----
 SEQ 5 : ELPKTLEHHHHH-----
 SEQ 6 : ELPKTGLTSVDNFISTVAFATLALLGSLSLLLFKRKESK-----
 SEQ 7 : ELPKTGLTSVDNFISTVAFATLALLGSLSLLLFKRKESK-----
 SEQ 8 : ELPKTGLTSVDNFISTVAFATLALLGSLSLLLFKRKESK-----
 SEQ 9 : ELPKTGLTSVDNFISTVAFATLALLGSLSLLLFKRKESKLEHHHHH

ATGGGCAGCAGCCATCATCATCATCACAGCAGCGGCTGGTCCCCGGCAGCCATATGGC**ACACAAGTT**
TCTCAAGCAACATCACAACCAATTAAATTTCAGTGC**AAAAGATGGCTTCAAGAGTCACACATGGATGAC**
TATATGCAACACCCTGGTAAAGTAATTAAACAAAATAATAATTATTTC**AAACCGTGTAAACATGCATCA**
TTCTGGAAAGAATACAATTACATGCAAACAATCAGAATTAGCAACAACTGTTAACGATAATAAAAAA****
GCGGATACTAGAACAAATCAATGTTGAGCTGGATATAAGAGCTTAACTAAAGTACATATTGTCGTG****
CCACAAATTAAATTACAATCATAGATAACTACGCATTGGAATTGAAAAAGCAATTCTACATTAGCTGACGCA****
GCAAAACCAAAACAATGTTAAACCGGTTCAACCCAAAACAGCTAACCTAAAACACCTACTGAGCAA**ACTAAACCA****
GTTCAACCTAAAGTGTAAAGTAAACCTACTGTA**ACTACAAACAGC**AAAGTGTAAAGACAAATCACTCTACTAAA******
GTTGTAAGTACTGACACAAACAAAGATCAA**ACTAAAACACAA**ACTGCTCATACAGTTAAACAGCACAA**ACTGCT********
CAAGAACAAATAAGTCAACACCTGTTAAAGATGTTGCAACAGC**AAATCTGAAAGCAACAA**ATCAAGCTGTA******
AGTGATAATAAAATCACAACAA**ACTAACAA**AGTTACAAA**ACATAACGAAACGC**CTAAACAA**AGCATCTAAAGCTAAA**********
GAATTACCAAAACTTGA****************

FIG. 4

ATGGGCAGCAGCCATCATCATCATCACAGCAGCGGCTGGTCCCCGGCAGCCATATGGC**ACACAAGTT**
TCTCAAGCAACATCACAACCAATTAAATTTCAGTGC**AAAAGATGGCTTCAAGAGTCACACATGGATGAC**
TATATGCAACACCCTGGTAAAGTAATTAAACAAAATAATAATTATTTC**AAACCGTGTAAACATGCATCA**
TTCTGGAAAGAATACAATTACATGCAAACAATCAGAATTAGCAACAACTGTTAACGATGATAAAAAA****
GCTGACACTAGAACAAACTCAATGTTGCTGTTGAAC**CTGGTATAAGAGTT**AAACTACAA**AAAGTACATATTGTCGTG********
CCACAAATTAAATTATAATCATAGATAACTACGCATTAGAATTGAAAAAGCAATTCTACATTAGCTGACGCA****
GCAAAACCAAAACAATGTTAAACCGGTTCAAC**CCAAA**ACTGCTAACCTAAAACACCTACTGAGCAA**ACGAAACCA********
GTTCAACCTAAAGTGTAAAGTAAACCTGCTGTA**ACTGCACC**AAAGC**AAAATGAAACAGACAA**ACTACAAA**********
GTTGTAAGTAGTGAAGCTACAA**AGATCAA**AGTCAA**ACACAA**AGT**CTCGTACAGT**GGAAACACACAA**CAGCT**************
CAAGATCAAAAATAAGTCAACAC**CTGTTAAAGATGTTGCAACAGC**AAATCTGAAAGCAACAA**ATCAAGCTGTA**********
AGTGACAATAAA**ATCACAACAA**ACTAACAA**AGTTACAAA**ACAA**AGT**TCATAACAA**AGGAC**CTTCAAAGAT**TCTAAAGCTAAAGAATTACCAAA**ACTTGA**********************************

FIG. 5

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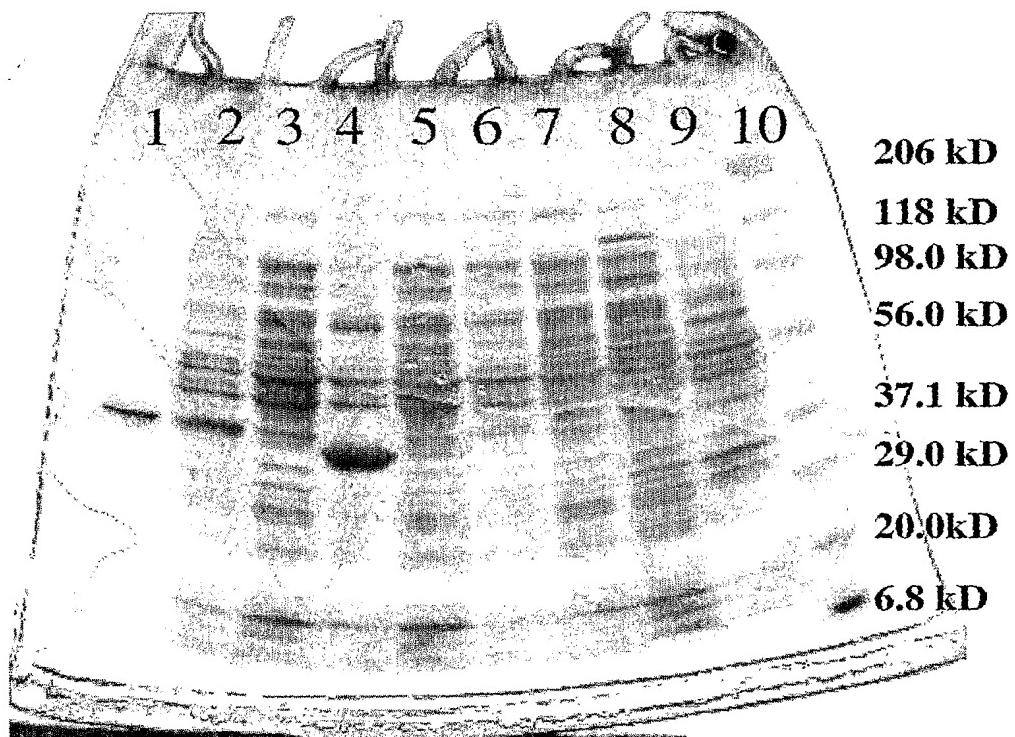


FIG. 6A

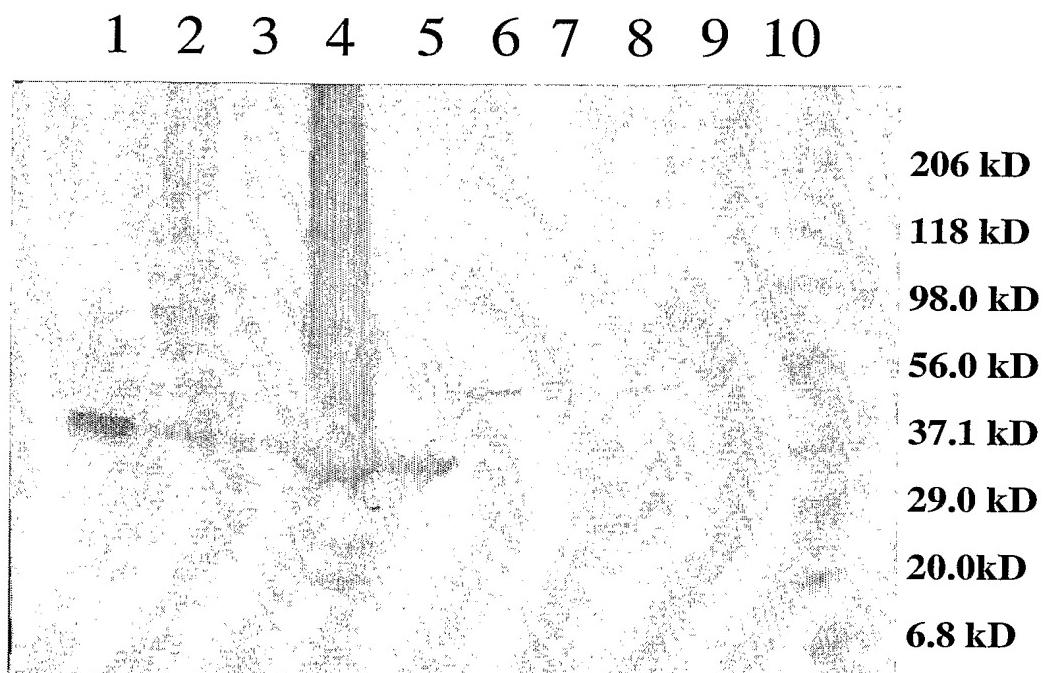


FIG. 6B

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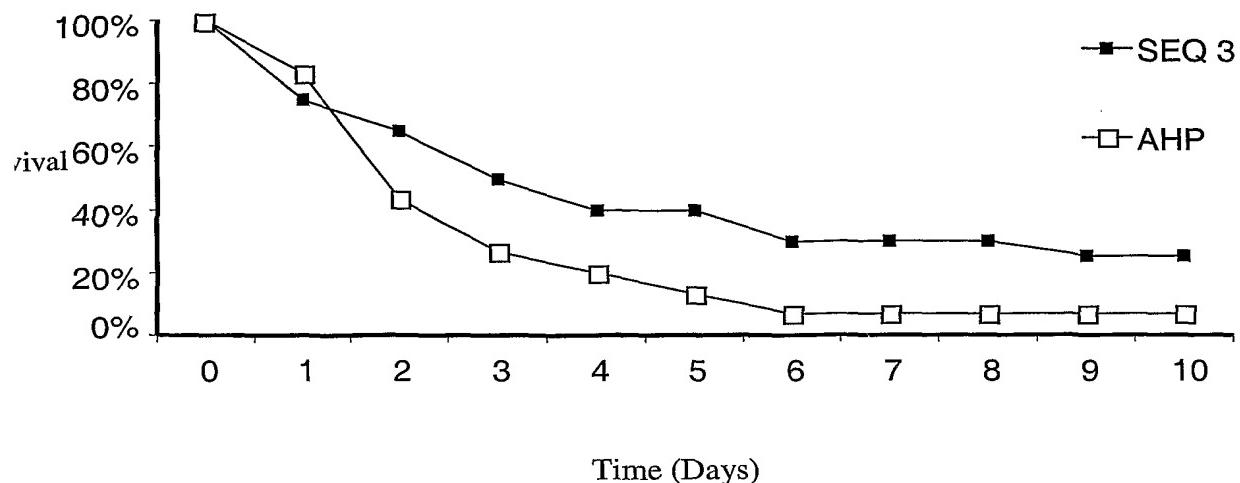


FIG. 7A

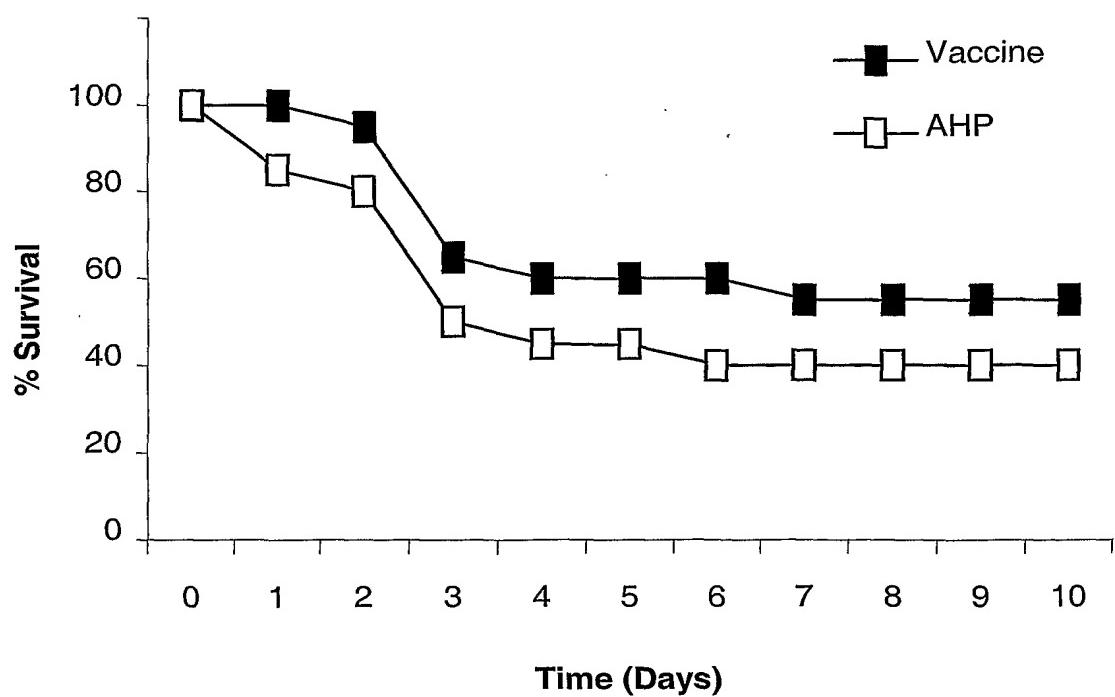


FIG. 7B